PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	Applicant's or agent's file reference PCT-149 FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/41			camination Report (Form PC1/IPEA/416)			
	ational a			International filing date (da	y/month/year)	Priority date (day/month/year)	
	EP 03			28.11.2003			
			Classification (IPC) or b 31/201	oth national classification and	IIPC		
Applio UNI\	cant VERSI	TAT	DE LES ILLES BAI	EARS			
1.	This li Autho	nternat rity an	ional preliminary exa d is transmitted to th	amination report has been e applicant according to A	prepared by this Int	ernational Preliminary Examining	
2.	2. This REPORT consists of a total of 4 sheets, including this cover sheet.						
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
	Thes	e anne	xes consist of a tota	of 1 sheets.			
3.	3. This report contains indications relating to the following items:						
	1	\boxtimes	Basis of the opinion				
	11		Priority			and industrial applicability	
1	(II)				velty, inventive step	p and industrial applicability	
	IV		Lack of unity of inve	ntion	t and to morrolly	inventive eten or industrial applicability:	
	٧	Ø	Reasoned statement citations and explan	it under Rule 66.2(a)(ii) Wit ations supporting such sta	n regard to hoverty, tement	inventive step or industrial applicability;	
1	VI		Certain documents				
	VII			e international application			
	VIII		Certain observation	s on the international appli	cation		
Dat	e of sub	missio	n of the demand		Date of completion of	of this report	
28	.04.20	05			25.01.2006		
Nai	me and	mailing	address of the internation	tional	Authorized Officer	gardiuches Polesten.	
Pre		- Eur	onean Patent Office - F	P.B. 5818 Patentiaan 2	Tellaron A		
	9	NL. Tel	2280 HV Rijswijk - Pay . +31 70 340 - 2040 Tx r +31 70 340 - 3016	: 31 651 epo nl	Tallgren, A	70.040.3033	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/13828

ı.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	ription, Pages					
	1-17		as originally filed				
	Clair	ns, Numbers					
	1-5	·	received on 28.06.2005 with letter of 25.06.2005				
	Drav	wings, Sheets					
	1/8-8		as originally filed				
2.	With lang	ge, all the elements marked above were available or furnished to this Authority in the rnational application was filed, unless otherwise indicated under this item.					
			ilable or furnished to this Authority in the following language: , which is:				
		the language of a trar	nslation furnished for the purposes of the international search (under Rule 23.1(b)).				
	П	the language of public	ation of the international application (under Rule 48.3(b)).				
		the language of a trar Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under				
3.	With inte	n regard to any nucleo rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
		contained in the inter	national application in written form.				
filed together with the inter			e international application in computer readable form.				
			tly to this Authority in written form.				
		furnished subsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
	Ö	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
4	. The	e amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

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International application No.

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they had been considered to go beyond the disclosure as filed (Rule 70.2(c)).	ave
J. L	heen considered to go beyond the disclosure as filed (Rule 70.2(c)).	

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-5

No: Claims

Inventive step (IS) Yes: Claims 1-5

No: Claims

Industrial applicability (IA) Yes: Claims 1-5

No: Claims

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY EXAMINATION REPORT - SEPARATE SHEET

1. The amended claim 1 fulfill the criteria set by article 34(2)b and is therefore accepted (based to old claim 2 and page 8 lines 21-25, page 11 lines 5-14 and page 12 lines 6-17). The same applies to dependent claims 2-5 (based to old claims 3-6)

ITEM V

WO03030891 CPA (closest prior art)

- 1. Both the application and CPA describe the use same type of compounds (2-substituted oleic and related acids (2-hydroxyoleic acid)) as in this application for treating e.g. hypertension and obesity associated with structural changes in cell membranes.
- 2. The difference is, that in CPA there is no mentioning of use in food or dietary supplement type of products.
- 3. The technical problem solved by the present application is to provide an advantageous technical effect to food compositions, to avoid or reduce the risks of developing hypertension and obesity.
- 4. This application provides an alternative route to specific compound (2-substituted oleic and related acids (2-hydroxyoleic acid)) administration. D2-D4 comprise different fatty acids administered also as functional food to avoid or reduce the risks of cardiovascular diseases (hypertension or obesity not mentioned). WO0200042 describes the use of different long chain fatty acids to avoid or reduce obesity as functional food supplement. The compounds in the previous mentioned documents are not closely related derivatives or otherwise closely related compounds. The compounds described in CPA are not administered orally, but injected and therefore not easily changeable to other types of oral formulations (functional foods). Therefore there is no single document cited in the search report to give a hint to a skilled person to administer 2-substituted oleic and related acids (2-hydroxyoleic acid) as functional food additives. It is not regarded obvious for a skilled person to administer 2-substituted oleic and related acids (2-hydroxyoleic acid) as functional food additives as described in the present application.

Accordingly claim 1 (also dependent claims 2-5) meet the requirements of Articles 33(2) and (3) PCT.

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CLAIMS

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- 1.- Use of compounds of general formula I: $COOH-CHR-(CH_2)_m-CH=CH-(CH_2)_n-CH_3$, where R is OH and m and n have, independently, a value between 0 and 15, in the manufacture of food additives and/or ingredients, dietary products, acceptable food forms, functional food additives and foods in general, the ingestion of which is useful for the prevention and control of hypertension and/or obesity.
- 2.- Use according to Claim 1, characterized in that the compounds of general formula I preferably have between 12 and 28 carbon atoms.
- 15 3.- Use according to any one of Claims 1 or 2 characterized in that the compound of general formula I is preferably 2-hydroxyoleic acid.
- 4.- Use according to claim 3, in which the ingestion of 2-20 hydroxyoleic acid, as food additive and/or ingredient dietary product, acceptable food form, functional food additive or food in general, is useful in the prevention and control of hypertension.
- 5.- Use according to claim 3, in which the ingestion of 2-hydroxyoleic acid, as food additive and/or ingredient dietary product, acceptable food form, functional food additive or food in general, is useful in the prevention and control of obesity.

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